

### ABSTRACT OF THE DISCLOSURE

An integration train brake system including a single brake controller providing locomotive and train brake commands. A first control transmits a car brake signal on an electrical network for train brake commands to EP cars. A second control transmits a locomotive brake signal on the locomotive brake pipe for train and locomotive brake commands. The brake system may have a pneumatic mode and an electrical mode. The first control transmits car brake signals on the network in the electrical mode and the second control transmits car brake signals on the train brake pipe for the pneumatic mode. The second control transmits locomotive brake signals on the locomotive brake pipe in either mode. If the train is all electropneumatic, cars and locomotive braking signals are provided on the network.